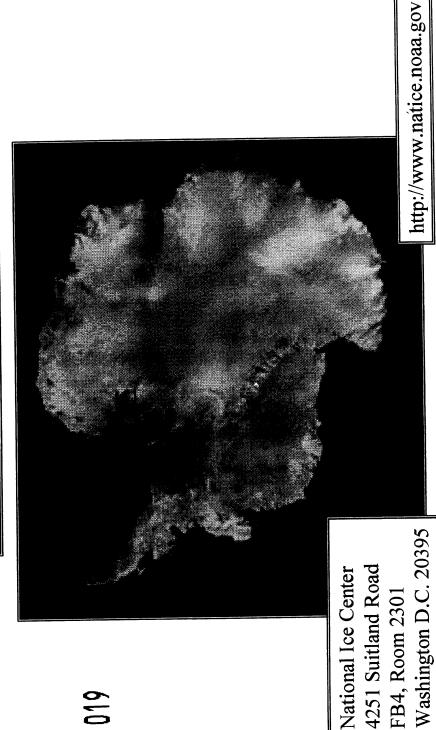


19990722 019

## Antarctic Sea Ice Atlas National Ice Center 1996





**DISTRIBUTION STATEMENT A**Approved for Public Release
Distribution Unlimited

DITC QUALITY INSPECTED 4

## PREFACE

Atmospheric Administration (NOAA), provides sea ice analyses encompassing The National Ice Center (NIC), under sponsorship of the United States observations and differ only in that the Arctic and Antarctic are split into two established under our previous name, the Joint Ice Center. These atlases continue the near real-time integration of remotely sensed data and point the "Arctic" and the "Antarctic". These analyses continue the data set Navy, the United States Coast Guard, and the National Oceanic and

depicting the sea ice extent and coverage in the Southern Hemisphere from the separate publications per hemisphere per year. This publication is the 11<sup>th</sup> edition of the annual "Antarctic Sea Ice Atlas" published in hard copy format by the NIC. The atlas contains weekly charts first week of January through December 1996.

Resolution Radiometer (AVHRR) data. Dash-dash-dotted line depicts boundaries derived from DMSP Special Sensor Microwave Imager (SSM/I), and dashed lines analyses. Table 1 lists the data sources used to produce the Antarctic weekly ice The NIC uses a wide variety of data sources in the production of sea ice Program Operational Line Scan (DMSP OLS) and NOAA Advanced Very Highboundaries derived from: point observations, Defense Meteorological Satellite provide metadata information with regard to sensor type. Solid lines depict analyses contained in this publication. The line types used in the analyses depict boundaries derived from forecast models and climatology.

Please direct questions or comments to the NIC Liaison Branch, at phone number (301) 457-5303 extension 311 or 303, facsimile number (301)457-5300, or electronic mail address: liaison@natice.noaa.gov

solution, while transitioning to distribution via CD-ROM. The purpose of this atlas using NIC designated archive centers. By fall 1999, it is anticipated that NIC will complete and distribute Arctic/Antarctic ice atlases on CD-ROM for 1995, 1996, 1997, and 1998. It should be noted that the charts presented in this atlas have been drawn by hand for operational use. Corrections to "hand annotations" are is to make all National Ice Center (NIC) sea ice charts available to customers Atlas addendum: This publication is intended to serve as an interim visible on some of the charts in the atlas.

[ a. ]	umpris 200 X	
Coverage	3,012km 3,012km	4,000km
Resolution Coverage	0.55 km 25 km	1.1km at nadir; 2.5km at swath edge
Spectral Region	0.4 to 1.1 μm 10.2 to 12.8 μm 19.35 and 37GHz	0.58 to 0.68 µm 0.72 to 1.10 µm 3.55 to 3.93µm
Sensor and Type	OLS Fine: VIS IR SSM/I	AVHRR: HRPT/LAC VIS NIR IR
Sensor Platform	DMSP F-10, 11, 12, 13	NOAA 12, 14
То	01-96 12-96 DMSP F-10, 1 12, 13	01-96 12-96 NOAA 12, 14
From	01-96	01-96

TABLE 1. 1996 Antarctic Satellite Data Sources

## Abbreviations and Acronyms:

AVHRR- Advanced Very High Resolution Radiometer cm- centimeter

GHz- GigaHertz

HRPT- High Resolution Picture transmission

IR- Infrared

km- kilometer

LAC- Local Area Coverage NIR- Near Infrared

OLS- Operational Linescan System

SSM/I- Special Sensor Microwave Imager

um- micrometer

/IS- Visible

Antarctica satellite composite courtesy of United States Geological Survey, Flagstaff, AZ.

(http://TerraWeb.wr.usgs.gov/TRS/projects/Antarctica/color/images)

Prepared under the authority of Commander, Naval Oceanography Command,

Stennis Space Center, MS 39529-5000

